FCC REPORT

For LTE

Report No.: CHTEW23100034 Report Verification:

Project No...... SHT2309044601EW

FCC ID.....: 2ASWW-FLIPK

Applicant: XINCHUANGXIN INTERNATIONAL CO.,LTD

Address...... ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA

YUEN STREET MONGKOK KL

Product Name: Feature phone

Trade Mark CORN

Model No. Flip K

Listed Model(s)

Standard: FCC CFR Title 47 Part 2

FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

FCC CFR Title 47 Part 27

Date of receipt of test sample....... Sep. 14, 2023

Date of testing...... Sep. 14, 2023- Oct. 10, 2023

Date of issue...... Oct. 13, 2023

Result...... Pass

Compiled by

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1 accord

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(position+printedname+signature)....: Project Engineer Xiaodong Zhao

Gaodom Zhe

Approved by

(position+printedname+signature)....: Manager Xu Yang

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC CFR Title 47 Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations

FCC CFR Title 47 Part 22 Subpart H: Cellular Radiotelephone Service

FCC CFR Title 47 Part 24 Subpart E: Broadband PCS

FCC CFR Title 47 Part 27: Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2023-10-13	Original

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2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result #1	Test Engineer
5.1	Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	Xiaodong Zhao
5.2	Peak-to-Average Ratio	Part 24.232 Part 27.50	Pass	Xiaodong Zhao
5.3	99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	Pass	Xiaodong Zhao
5.4	Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiaodong Zhao
5.5	Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiaodong Zhao
5.6	Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	Xiaodong Zhao
5.7	Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	Xiaodong Zhao
5.8	ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	Pass	Xiaodong Zhao
5.9	Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	Yifan Wang

Note:

#1: The test result does not include measurement uncertainty value

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3. **SUMMARY**

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO.,LTD
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD
Address:	Second Floor,Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong

3.2. Product Description

Main unit information:	
Product Name:	Feature phone
Trade Mark:	CORN
Model No.:	Flip K
Listed Model(s):	-
Power supply:	DC 3.7V from Li-ion Battery
Hardware version:	ZS586TF_MB_V1.0
Software version:	ZS586TF_240320_F24401_FLIP_K_CORN_EnFrPoSp_V01
Accessory unit information:	
Battery information:	BL-4C Voltage: 3.7V Capacity: 800mAh 3.7V Li-ion BATTERY 2.96Wh 3.7V Li-ion BATERIA 2.96Wh
Adapter information:	Model: FSF-01 INPUT: 100-240V~50/60Hz 0.15A OUTPUT: DC 5.0V, 500mA

3.3. Radio Specification Description

	☐ LTE Band 2		nd 4	☑ LTE Band 5	
			nd 12	☐ LTE Band 13	
Support Operating Band:		☐ LTE Bai	nd 25	☐ LTE Band 26	
	☐ LTE Band 38	☐ LTE Bai	nd 41	⊠ LTE Band 66	
	☐ LTE Band 71				
Operating Frequency Range:	Please refer to no	te #2			
Channel bandwidth:	Please refer to no	te #3			
Uplink Modulation type:	⊠ QPSK	⊠ 16QAM	☐ 64QAM	☐ 256QAM	
Downlink Modulation type:	⊠ QPSK	⊠ 16QAM	☐ 64QAM	☐ 256QAM	

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Antenna type:	Internal		
	Band 2: 0.82dBi	Band 4: 0.82dBi	Band 5: -1.23dBi
Antenna gain #4:	Band 7: 0.94dBi	Band 12: -1.64dBi	Band 17: -1.64dBi
	Band 66: 0.82dBi		

Note:

- O 🛛 : means that this feature is supported; 🗀 : means that this feature is not supported
- O #2: Operating frequency range is as follow:

LTE Band	Uplink frequency	Downlink frequency
LTE Band 2	1850.7 – 1909.3 MHz	1930.7 – 1989.3 MHz
LTE Band 4	1710.7 – 1754.3 MHz	2110.7 – 2154.3 MHz
LTE Band 5	824.7 – 848.3 MHz	869.7 – 893.3 MHz
LTE Band 7	2502.5 – 2567.5 MHz	2622.5 – 2687.5 MHz
LTE Band 12	699.7 – 715.3 MHz	729.7 – 745.3 MHz
LTE Band 17	706.5 – 713.5 MHz	736.5 – 743.5 MHz
LTE Band 66	1710.7 – 1779.3 MHz	2110.7 – 2179.3 MHz

O Supported channel bandwidth is as follow:

LTE Band	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
LTE Band 2	\checkmark	\checkmark	√	√	√	√
LTE Band 4	√	√	√	√	√	√
LTE Band 5	√	\checkmark	√	√	-	-
LTE Band 7	-	-	√	√	√	√
LTE Band 12	√	√	√	√	-	-
LTE Band 17	-	-	√	√	-	-
LTE Band 66	√	√	√	√	√	√

 $[\]sqrt{\ }$: means that this feature is supported; -: means that this feature is not supported

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China
Contact information:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn

O #4: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, HTW lab has not verified the authenticity of its information

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	http://www.szhtw.com.cn	
Qualifications	Туре	Accreditation Number
Qualifications	FCC	762235

4. TEST CONFIGURATION

4.1. Test frequency list

LTE Band 2	1					
LIL Band 2	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	18607	1850.7	607	1930.7
		3 5	18615 18625	1851.5 1852.5	615 625	1931.5 1932.5
	Low Range	10	18650	1855	650	1935
		15 [1]	18675	1857.5	675	1937.5
	Mid Range	20 (1)	18700	1860	700	1940
	wid Kange	1.4/3/5/10 15 ^[1] /20 ^[1] 1.4	18900 19193	1880 1909.3	900 1193	1960 1989.3
		3	19185	1908.5	1185	1988.5
	High Range	5 10	19175 19150	1907.5 1905	1175 1150	1987.5 1985
		15 [1]	19125	1902.5	1125	1982.5
		20 [1]	19100	1900	1100	1980
	NOTE 1: Bandwidth 36.101 [2	for which a relaxati 7] Clause 7.3) is alk	on of the spe owed.	ecified UE receiver :	sensitivity re	quirement (TS
TE Band 4	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	19957	1710.7	1957	2110.7
		3	19965	1711.5	1965	2111.5
	Low Range	5 10	19975 20000	1712.5 1715	1975 2000	2112.5 2115
		15	20025	1717.5	2025	2117.5
	Mid Danes	20 1.4/3/5/10/15/20	20050 20175	1720	2050 2175	2120
	Mid Range	1.4/3/5/10/15/20 1.4	20175	1732.5 1754.3	2393	2132.5 2154.3
		3	20385	1753.5	2385	2153.5
	High Range	5 10	20375	1752.5 1750	2375 2350	2152.5
		10 15	20350 20325	1750	2350	2150 2147.5
		20	20300	1745	2300	2145
TE Band 5	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	20407	824.7	2407	869.7
	Low Range	3 5	20415 20425	825.5 826.5	2415 2425	870.5 871.5
		10 [1]	20425	826.5 829	2425	871.5
	Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
		1.4 3	20643 20635	848.3 847.5	2643 2635	893.3 892.5
	High Range			846.5	2625	892.5
	gg.	5	20625			
	NOTE 1: Bandwidth f	10 ^[1]	20600 n of the spec	844	2600	889
TE Band 7	NOTE 1: Bandwidth f	10 ^[1] or which a relaxation Clause 7.3) is allow Bandwidth [MHz]	20600 n of the spec wed.	844 ified UE receiver se Frequency of Uplink [MHz]	2600 Insitivity requ	889 irement (TS Frequency of Downlink [MHz]
TE Band 7	NOTE 1: Bandwidth f 36.101 [27	10 ¹¹ or which a relaxatio] Clause 7.3) is allo Bandwidth [MHz]	20600 n of the spec wed.	844 cified UE receiver se Frequency of Uplink [MHz] 2502.5	2600 Insitivity requ	Frequency of Downlink [MHz] 2622.5
ΓE Band 7	NOTE 1: Bandwidth f 36.101 [27	10 ¹¹ or which a relaxatio] Clause 7.3) is allo Bandwidth [MHz] 5 10 15	N _{UL} 20775 20800 20825	844 ified UE receiver se Frequency of Uplink [MHz]	2600 Institivity requirements Not. 2775 2800 2825	889 irement (TS Frequency of Downlink [MHz]
ΓE Band 7	NOTE 1: Bandwidth f 36.101 [27	10 ¹¹ or which a relaxatio Clause 7.3) is allo Bandwidth [MHz] 5 10 15 15 20 11	20600 n of the specwed. NuL 20775 20800	844 cified UE receiver se Frequency of Uplink [MHz] 2502.5 2505	N _{DL}	Frequency of Downlink [MHz] 2622.5 2625
TE Band 7	NOTE 1: Bandwidth f 36.101 [27	10 ¹¹ or which a relaxatio Clause 7.3) is allo Bandwidth [MHz] 5 10 15 15 20 11	N _{UL} 20775 20800 20825	Frequency of Uplink [MHz] 2502.5 25005 2507.5	2600 Institivity requirements Not. 2775 2800 2825	889 sirement (TS Frequency of Downlink [MHz] 2622.5 2625 2627.5
TE Band 7	NOTE 1: Bandwidth f 36.101 [27	10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11	20600 n of the specwed. NuL 20775 20800 20825 20850 21100 21425	### 844 Frequency of Uplink [MHz] 2502.5 2505 2507.5 2510 2535 2567.5	2600 Insitivity required to 100 Not. 2775 2800 2825 2850 3100 3425	889 Section 889 Frequency of Downlink [MHz] 2622.5 2625 2627.5 2630 2655 2687.5
TE Band 7	NOTE 1: Bandwidth f 36.101 [27	10 ¹¹ or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 ¹¹ 5/10/15 20 ¹¹ 5 10	NuL 20775 20800 20825 20850 21100 21425 21400	844	2600 Insitivity required No. 1 2775 2800 2825 2850 3100 3425 3400	889
TE Band 7	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range	10 ¹¹ or which a relaxatio Clause 7.3) is allo Bandwidth [MHz] 5 10 15 20 ¹¹ 5/10/15 20 ¹¹ 15 20 ¹¹ 10 15 20 ¹¹ 10 15 20 ¹¹ 15 20 ¹¹ 15 20 ¹¹ 15 20 ¹¹	NuL 20775 20800 20825 20825 21100 21425 21400 21375 21350	### 844 Frequency of Uplink [MHz] 2502.5 2505 2510 2535 2567.5 2565 2562.5 2562.5 2565 2562.5 2560 2550 25	2600 nsitivity requ NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350	889
_TE Band 7	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range	10 ¹¹ or which a relaxatio Clause 7.3) is allo Bandwidth [MHz] 5 10 15 20 ¹¹ 5/10/15 20 ¹¹ 15 20 ¹¹ 10 15 20 ¹¹ 10 15 20 ¹¹ 15 20 ¹¹ 15 20 ¹¹ 15 20 ¹¹	20600 n of the specwed. NuL 20775 20800 20825 20805 21100 21425 21400 21375 21350 n of the spec	### 844 Frequency of Uplink [MHz] 2502.5 2505 2510 2535 2567.5 2565 2562.5 2562.5 2565 2562.5 2560 2550 25	2600 nsitivity requ NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350	889
LTE Band 7 LTE Band 12	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range	10 III or which a relaxatio clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 III 5/10/15 20 III 10 15 10 15 10 15 10 15 10 15 10 15 10 15 20 III 20	Nu. 20775 20800 Nu. 20775 20800 20825 20850 21100 21425 21375 21350 21550 of the specwed.	## 844 Frequency of Uplink [MHz] 2502.5 2505 2507.5 2510 2535 2567.5 2565 2562.5 2560 2562.5 2560 1ified UE receiver set	2600 nsitivity requirements of the second se	889
	NOTE 1: Bandwidth f 36.101 [27	10 III or which a relaxatio of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 III 5/10/15 20 III 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 16 17 18 18 18 Test frequencies Bandwidth	Nu. 20775 20800 Nu. 20775 20800 20825 20850 21100 21425 21375 21350 21550 of the specwed.	## 844 Frequency of Uplink [MHz] 2502.5 2507.5 2510 2535 2567.5 2565 2562.5 2560 2562.5 2560 2562.8 2562.8 2562.8 2562.8 2560 2562.8 256	2600 nsitivity requirements of the second se	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth f 36.101 [27 Table 4.3.1.1.12-1:	10 IV crown in the control of the co	NuL NuL 20000 NuL NuL 20075 20800 20825 20850 21100 21425 21400 21375 21350 of the specwed.	844	2600 nsitivity required No. 2775 2800 2825 2850 3100 3425 3400 3375 3350 nsitivity required Width for co	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID	10 III or which a relaxation Clause 7.3) is allow Bandwidth [MHz] 5	20600 n of the specwed. Nut. 20775 20800 20825 20850 21100 21375 21350 21350 n of the specwed. S for E-UTF Nut. 23017 23025 23	## 844 Frequency of Uplink [MHz]	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350 nsitivity required NoL 5017 5025	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth f 36.101 [27 Table 4.3.1.1.12-1:	10 III or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 III 5/10/15 20 III 15 10 15 20 III 10 15 Togaritation of the second of the	NuL 20775 20800 NuL 20775 20800 20825 20850 21100 21425 21400 21375 21350 n of the specwed. S for E-UTF NuL 23017 23025	R44 R44 R44 R44 R44 R45	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350 nsitivity required NoL 5017 5025	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID	10 ¹¹ or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 ¹¹ 5/10/15 20 ¹¹ 15 10 15 20 ¹¹ 17 or which a relaxation of Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 ^[1] 10 ^[1] 10 ^[1] 1.4/3	20600 n of the specwed. Nut. 20775 20800 20825 20850 21100 21375 21350 21350 n of the specwed. S for E-UTF Nut. 23017 23025 23	## 844 Frequency of Uplink [MHz]	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350 nsitivity required NoL 5017 5025	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range	10 ¹¹ or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 ¹¹ 5/10/15 20 ¹¹ 10 15 20 ¹¹ 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 11 14 3 5 ¹¹ 10 ¹¹ 144 3 5 ¹¹ 10 ¹¹ 14/3 5 ¹¹ 10 ¹¹ 14/3 5 ¹¹ 10 ¹¹ 14/3	NuL 2000 NuL	R44	2600 nsitivity required Not. 2775 2800 2825 2850 3100 3425 3400 3375 3350 suitivity required Not. 5017 5025 5035 5060 5095	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range	To III or which a relaxation clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 III 5/10/15 20 III 10 15 20 III 10 15 15 10 15 10 15 20 III 10 15 15 10 15 20 III 10 15 15 10 11 14 3 5 5 11 10 11 14 3 5 10 10 11 14 14 3 5 10/10 III 14 14 14 15 11 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	20600	844	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350 nsitivity required NoL 5017 5025 5035 5095 5173	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range	10 ¹¹ or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 ¹¹ 5/10/15 20 ¹¹ 10 15 20 ¹¹ 10 15 10 15 10 15 10 15 10 15 10 15 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 11	20600 NuL 20775 20800 20825 20850 21100 21425 21375 23035 23035 23095 23175 23155	R44 Receiver set	2600 nsitivity required NpL 2775 2800 2825 2850 3100 3425 3400 3375 3375 3350 sitivity required width for o NpL 5017 5025 5035 5060 5095 5175 5155	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth f 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range	10 110 or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 111 5/10/15 20 110 15 10 15 20 111 or which a relaxation of Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 111 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 1.4/3 5 117 10 111 10 1	NuL 20775 20800 20825 20850 20850 21100 21425 21440 21375 21350 n of the specwed. 8 for E-UTF NuL 23017 23025 23035 23060 23095 23173 23165 23155 23130 po of the specwed.	## 844 ## 1516	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350 nsitivity required NoL 5017 5025 5035 5060 5095 5173 5165 5155 5130	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth f 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range	10 ¹¹ or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 ¹¹ 5/10/15 20 ¹¹ 10 15 10 15 20 ¹¹ 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 11 10 15 10 11 10 11 11 14 3 5 ¹¹ 10 ¹¹ 11	NuL 20775 20800 20825 20850 20850 21100 21425 21440 21375 21350 n of the specwed. 8 for E-UTF NuL 23017 23025 23035 23060 23095 23173 23165 23155 23130 po of the specwed.	## 844 ## 1516	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3425 3400 3375 3350 nsitivity required NoL 5017 5025 5035 5060 5095 5173 5165 5155 5130	889
	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10:	10 [1] Bandwidth [MHz] Bandwidth [MHz] 5 10 15 20 [1] 5/10/15 20 [1] 5 10 15 20 [1] 6/10/15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 10 15 10 10 11 10 11 14 3 5 [1] 10 [1] 1.4/3 5 [1]/10 [1]/10 [1] 1.4/3 5 [1]/10 [1]/10 [1] 1.4/3 5 [1]/10 [1]/10 [1] 1.4/3 5 [1]/10 [1]/10 [1] 1.4/3 5 [1]/10 [1]/10 [1] 1.4/3 [1]/10 [1]/10 [1] 1.4/3 [1]/10 [1	NuL 20775 20800 NuL 20775 20800 20825 20850 21100 21425 21400 21375 21350 n of the specwed. 8 for E-UTf NuL 23017 23025 23035 23060 23095 23173 23165 23155 23130 on of the speadlowed.	## 844 Frequency of Uplink [MHz] 2505 2507.5 2510 2535 2567.5 2566 2562.5 2560 2562.5 2560 2562.5 2560 2662.5 2560 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660 2662.5 2660	2600 NoL 2775 2800 2825 2850 3100 3375 3350 3315 5060 5095 5173 5165 5150 ensitivity requirements 5173 5165 5155 5130 ensitivity requirements NoL	889
TE Band 12	NOTE 1: Bandwidth 1 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range Mid Range NOTE 1: Bandwidth 1 (TS 36.10)	10 ¹¹ crowhich a relaxation of Clause 7.3) is allow a relaxation of Clause 7.3) is	Nut. 20775 20800 20825 20850 20850 21100 21425 21440 21375 21350 n of the specwed. 8 for E-UTF Nut. 23017 23025 23036 23095 23173 23165 23155 23130 n of the specwed.	## 844 Frequency of Uplink [MHz] 2502.5 2505 2507.5 2510 2535 2565 2565.5 2565 2562.5 2565 2562.5 2560	2600 nsitivity required NpL 2775 2800 2825 2850 3100 3425 3400 3375 3350 width for o NpL 5017 5025 5035 5060 5095 5153 5165 5155 5130 ensitivity required	889
TE Band 12	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10:	10 110 or which a relaxation of Clause 7.3) is allow Bandwidth [MHz] 5 10 15 20 111 5710/15 20 110 15 20 111 or which a relaxation of Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 111 10 111 1.4/3 5 117 10 111 1.4/3 5 [17] 10 [17]	NuL 20775 20800 NuL 20775 20800 20825 20850 21100 21425 21400 21375 21350 n of the specwed. 8 for E-UTf NuL 23017 23025 23080 23173 23165 23155 23150 23173 23165 23155 23173 23165 23173 23750	R44 R45	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3375 3400 3375 3350 nsitivity required NoL 5017 5025 5035 5060 5095 5173 5165 5155 5155 5155 5155 5155 5155 515	889
TE Band 12	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10)	10 ¹¹ crowhich a relaxation of Clause 7.3) is allow a relaxation of Clause 7.3) is	20600	R44 Section	2600 nsitivity required NpL 2775 2800 2825 2850 3100 3425 3400 3375 3376 3375 3350 solitivity required NpL 5017 5025 5035 5035 5035 5130 ensitivity req NpL 5755 5780 5790 5790	889
TE Band 12	NOTE 1: Bandwidth f 36.101 [27 Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth 1 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10: Test Frequency ID Low Range NOTE 1: Bandwidth of TS 36.10: Test Frequency ID Low Range NOTE 1: Bandwidth of TS 36.10:	10 11 Clause 7.3) is alloo or which a relaxation of Clause 7.3) is alloo or which a relaxation or which a relaxation or which a relaxation of Clause 7.3) is alloo or which a relaxation or which a relaxation of Clause 7.3) is alloo or which a relaxation or which a relaxation of the clause 7.3) is alloo or which a relaxation of the clause 7.3) is alloo or which a relaxation of the clause 7.3) is of the clause 7.3 is of the cl	20600	## 844 ## 1516	2600 nsitivity required NoL 2775 2800 2825 2850 3100 3425 3375 3350 3375 3350 strivity required NoL 5017 5025 5035 5095 5173 5165 5155 5130 ensitivity req	889

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LTE Band 6

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
	1.4	131979	1710.7	66443	2110.7
	3	131987	1711.5	66451	2111.5
Low Range	5	131997	1712.5	66461	2112.5
Low Range	10	132022	1715	66486	2115
	15	132047	1717.5	66511	2117.5
	20	132072	1720	66536	2120
Mid Range Tx1	1.4/3/5/10/15/20	132322	1745	66786	2145
Mid Range	1.4/3/5/10/15/20	132422	1755	66886	2155
	1.4	132665	1779.3	67129	2179.3
	3	132657	1778.5	67121	2178.5
Paired High	5	132647	1777.5	67111	2177.5
Range ²	10	132622	1775	67086	2175
	16	122E07	1772 E	67064	2172.5

132572 NA NA

NA NA

NA

1770

NA NA

NA NA

NA

67036

67329 67321

67311 67286

67236

2170

2199.3 2198.5

2197.5 2195

2190

Table 4.3.1.1.66-1: Test frequencies for E-UTRA channel bandwidth for operating band 66

4.2. Test mode

Test mode	Link mode	
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20

High Range³

- Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems and ANSI C63.26 with maximum output power.
- 2) Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Test configuration is as follow:

Test Items	Bandwidth	Modulation	RB#			
restitems	Danawiain	Modulation	1	Half	Full	
Conducted Output Power	#5	#6	0	0	0	
Peak-to-Average Ratio	#5	#6	0	-	0	
99% Occupied Bandwidth & 26 dB Bandwidth	#5	#6	1	1	0	
Band Edge	#5	#6	0	-	0	
Conducted Spurious Emission	#5	#6	0	-	-	
Frequency Stability	#5	#6	-	-	0	
ERP and EIRP	#5	#6	0	0	0	
Radiated Spurious Emission	#5	#6	0	-	-	

Note:

- O #5: Test all kind of bandwith in section 3.3
- O #6: Test all kind of uplink modulation in section 3.3
- O o: means that this configuration is chosen for testing
- -: means that this configuration is not test.
- O The device is investigatedfrom 30MHz to10 times offundamental signal for radiated spurious emission test under different bandwidth,modulations and RB size/offset in exploratory test. Subsequently, only the worst case emissions(highest bandwidth,QPSK,and 1RB0) are reported.

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4.3. Test sample information

Test item	HTW sample no.			
Conducted test items	Please refer to the description in the appendix report			
Radiated test items	YPHT23090446001			

Note:

Conducted test items: Conducted Output Power, Peak-Average Ratio, 99% Occupied Bandwidth & 26 dB

Bandwidth, Band Edge, Conducted Spurious Emissions, Frequency stability, ERP and

EIRP

Radiated test items: Radiated Spurious Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?								
✓	No							
Item	Equipment	Trade Name	Model No.	Other				
1								
2								

4.5. Testing environmental condition

Voltage	VN=Nominal Voltage	DC 3.70V		
	VL=Lower Voltage	DC 3.33V		
	VH=Higher Voltage	DC 4.07V		
Tomporoturo	TN=Normal Temperature	25 °C		
Temperature	Extreme Temperature	From -30°C to + 50°C		
Humidity	30~60 %			
Air Pressure	950-1050 hPa			

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4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty	
1	Conducted Output Power	0.66	
2	Peak-to-Average Ratio	-	
3	99% Occupied Bandwidth & 26 dB Bandwidth	0.002%	
4	Band Edge	1.68dB	
5	Conducted Spurious Emissions	1.68dB	
6	Frequency stability	0.02ppm	
7	Radiated Spurious Emission	4.54dB for 30MHz-1GHz	
	Tradiated Spurious Efficación	5.10dB for above 1GHz	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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4.7. Equipments Used during the Test

•	RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2023/08/22	2024/08/21	
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2023/08/25	2024/08/24	
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A	
•	T-Cock	Weinschel	HTWE0289	1580	SC329	2023/08/22	2024/08/21	

•	Auxiliary Equipment						
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2023/08/21	2024/08/20
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

•	Radiated Spurious Emission								
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16		
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/08/22	2024/08/21		
•	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2023/08/22	2024/08/21		
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/4/6	2024/4/5		
•	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13		
•	Pre-Amplifer	CD	HTWE0071	PAP-0102	12004	2023/5/25	2024/5/24		
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24		
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A		

•	Auxiliary Equipment								
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2023/08/25	2024/08/24		
•	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2023/05/15	2024/05/14		
0	Band Stop filter	-	HTWE0039	N/A	N/A	2023/01/26	2024/01/25		

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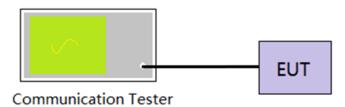
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

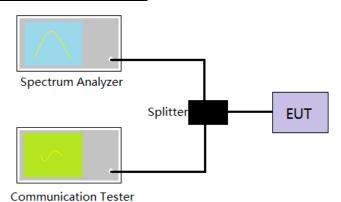
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5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

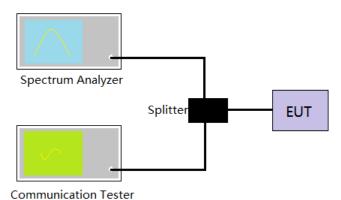
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5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of the anticipated OBW, VBW= 3 * RBW, Detector=Peak,

Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and 26dB bandwidth.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

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5.4. Band Edge

LIMIT

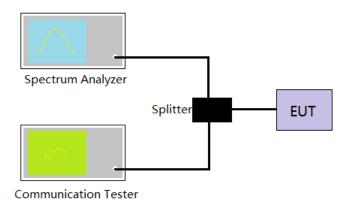
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
- 5. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

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5.5. Conducted Spurious Emissions

LIMIT

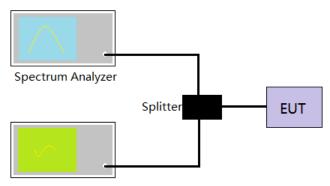
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit <-25 dBm

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.

Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

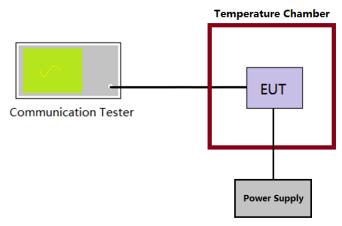
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5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to −30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

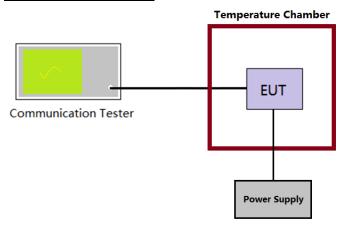
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5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- 4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

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5.8. ERP and EIRP

LIMIT

LTE Band 2/7: 2W(33dBm) EIRP LTE Band 4/66: 1W(30dBm) EIRP LTE Band 5: 7W(38.50dBm) ERP LTE Band 12/17: 3W(34.77dBm) ERP

TEST PROCEDURE

- 1. According to the power tested in section 5.1, select the maximum power in each mode, and use the following formula to calculate the corresponding ERP/EIRP.
- 2. ERP = conducted power + Gain(dBd)
- 3. EIRP = conducted power + Gain(dBi)

ERP = EIRP - 2.15

TEST RESULTS

TEST DATA

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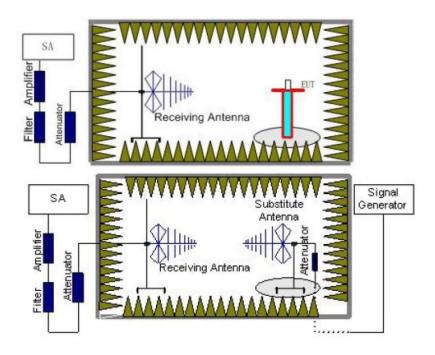
5.9. Radiated Spurious Emission

LIMIT

LTE Band 2/4/5/12/13/17/25/26/66/71: -13dBm;

LTE Band 7/38/41: -25dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

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7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.

- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

Note: only show the worse case for QPSK modulation.

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				LTE Ba	and 2				
Test ch	annel:	Low			Polarization	า:	Hori	izontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	42.94	-80.87	26.43	1.20	30.56	-83.80	-13.00	-70.80	Peak
2	770.42	-77.63	29.48	5.66	29.48	-71.97	-13.00	-58.97	Peak
3	3709.69	-54.88	42.28	5.19	37.01	-44.42	-13.00	-31.42	Peak
4	5574.67	-64.24	43.76	6.51	35.21	-49.18	-13.00	-36.18	Peak
5	7432.62	-61.95	48.40	7.84	34.38	-40.09	-13.00	-27.09	Peak
6	11399.03	-67.91	52.97	10.29	36.10	-40.75	-13.00	-27.75	Peak
Test ch	annel:	Low			Polarization	า:	Vert	ical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	98.47	-77.99	25.77	1.85	30.65	-81.02	-13.00	-68.02	Peak
2	948.05	-70.86	29.13	6.35	29.27	-64.65	-13.00	-51.65	Peak
3	3709.69	-56.27	42.29	5.19	37.01	-45.80	-13.00	-32.80	Peak
4	5574.67	-66.59	43.93	6.51	35.21	-51.36	-13.00	-38.36	Peak
5	7432.62	-61.64	48.53	7.84	34.38	-39.65	-13.00	-26.65	Peak
6	10860.83	-67.49	52.66	9.93	35.94	-40.84	-13.00	-27.84	Peak

Test ch	annel:	Mid			Polarization	1:	Horiz	zontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	39.75	-77.32	27.74	1.15	30.61	-79.04	-13.00	-66.04	Peak
2	773.13	-73.61	29.57	5.67	29.49	-67.86	-13.00	-54.86	Peak
3	3747.66	-57.64	42.24	5.19	36.97	-47.18	-13.00	-34.18	Peak
4	5631.73	-63.82	43.77	6.61	35.26	-48.70	-13.00	-35.70	Peak
5	7508.69	-60.22	48.05	7.69	34.12	-38.60	-13.00	-25.60	Peak
6	11428.08	-67.93	52.97	10.31	36.12	-40.77	-13.00	-27.77	Peak
Test ch	annel:	Mid			Polarization	1:	Verti	cal	
Mark	Frequency	Reading	Antenna	Cable		Level	Limit	Over	Remark
4	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	Doole
1 2	99.52	-80.70	25.76	1.87		-83.72	-13.00	-70.72	Peak
2	786.85	-74.90	29.32	5.73		-69.46	-13.00	-56.46	Peak
3	3747.66	-60.25	42.17	5.19		-49.86	-13.00	-36.86	Peak
4	5631.73	-62.57	43.94	6.61		-47.28	-13.00	-34.28	Peak
5	7508.69	-58.82	48.40	7.69	34.12	-36.85	-13.00	-23.85	Peak
6	11722.72	-68.30	53.10	10.51	36.27	-40.96	-13.00	-27.96	Peak

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Test ch	annel:	High			Polarizatio	n:	Hor	rizontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limi'	7. (2.0) 7.3	
1	39.75	-78.03	27.74	1.15	30.61	-79.75	-13.0	-66.7	5 Peak
2	948.05	-70.55	29.40	6.35	29.27	-64.07	-13.00	-51.0	7 Peak
3	3795.66	-59.83	42.19	5.24	37.08	-49.48	-13.00	-36.4	8 Peak
4	5689.36	-63.07	43.85	6.58	35.28	-47.92	-13.0	-34.9	2 Peak
5	7585.53	-63.65	47.70	7.87	34.13	-42.21	-13.00	-29.2	1 Peak
6	10833.22	-67.60	52.51	9.92	35.95	-41.12	-13.00	-28.1	2 Peak
Test ch	annel:	High			Polarizatio	n:	Ver	tical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	96.76	-79.58	25.79	1.84	30.66	-82.61	-13.00	-69.61	Peak
2	948.05	-73.56	29.13	6.35	29.27	-67.35	-13.00	-54.35	Peak
3	3795.66	-57.65	42.03	5.24	37.08	-47.46	-13.00	-34.46	Peak
4	5689.36	-64.07	44.00	6.58	35.28	-48.77	-13.00	-35.77	Peak
5	7585.53	-58.46	48.27	7.87	34.13	-36.45	-13.00	-23.45	Peak
6	10888.51	-67.80	52.69	9.95	35.93	-41.09	-13.00	-28.09	Peak

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				LTE Ba	and 4				
Test cha	annel:	Low			Polarization	າ:	Hori	zontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-79.31	26.96	1.18	30.58	-81.75	-13.00	-68.75	Peak
2	773.13	-78.18	29.57	5.67	29.49	-72.43	-13.00	-59.43	Peak
	3786.01	-66.11	42.20	5.20	37.10	-55.81	-13.00	-42.81	Peak
4	5164.81	-68.25	44.02	6.32	35.30	-53.21	-13.00	-40.21	Peak
5	6851.19	-69.88	46.98	7.29	34.05	-49.66	-13.00	-36.66	Peak
6	9809.40	-69.27	50.59	9.50	33.53	-42.71	-13.00	-29.71	Peak
Γest cha	annel:	Low			Polarization	າ:	Vert	ical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	108.28	-78.94	24.66	1.95	30.62	-82.95	-13.00	-69.95	Peak
2	948.05	-73.45	29.13	6.35	29.27	-67.24	-13.00	-54.24	Peak
3	3543.55	-64.56	41.78	5.18	37.42	-55.02	-13.00	-42.02	Peak
4	5022.19	-67.83	44.44	6.10	35.61	-52.90	-13.00	-39.90	Peak
5	6921.30	-68.01	47.37	7.39	34.41	-47.66	-13.00	-34.66	Peak
6	11399.03	-69.49	53.13	10.29	36.10	-42.17	-13.00	-29.17	Peak

Test ch	annel:	Mid			Polarizatio	n:	Hor	izontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	41.75	-78.68	26.96	1.18	30.58	-81.12	-13.00	-68.12	Peak
2	948.05	-75.51	29.40	6.35	29.27	-69.03	-13.00	-56.03	Peak
3	3454.49	-60.23	40.36	4.96	37.55	-52.46	-13.00	-39.46	Peak
4	5191.17	-62.69	43.97	6.31	35.44	-47.85	-13.00	-34.85	Peak
5	6921.30	-66.14	47.30	7.39	34.41	-45.86	-13.00	-32.86	Peak
6	10888.51	-67.29	52.64	9.95	35.93	-40.63	-13.00	-27.63	Peak
Test ch	annel:	Mid			Polarizatio	n:	Ver	tical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level	Limit	Over	Remark
1	95.74	-78.12	25.81	1.83	30.66	-81.14	-13.00	-68.14	Peak
2	948.05	-72.24	29.13	6.35	29.27	-66.03	-13.00	-53.03	Peak
3	3454.49	-61.94	40.42	4.96	37.55	-54.11	-13.00	-41.11	Peak
4	5191.17	-66.58	43.95	6.31	35.44	-51.76	-13.00	-38.76	Peak
5	6921.30	-64.69	47.37	7.39	34.41	-44.34	-13.00	-31.34	Peak
	10999.95	-67.27	52.79	10.00	35.90	-40.38	-13.00	-27.38	Peak

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Test ch	annel:	High			Polarizatio	n:	Hor	izontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.03	-80.37	27.77	1.15	30.60	-82.05	-13.00	-69.05	Peak
2	948.05	-74.68	29.40	6.35	29.27	-68.20	-13.00	-55.20	Peak
3	3719.15	-66.22	42.27	5.20	36.98	-55.73	-13.00	-42.73	Peak
4	5617.41	-68.40	43.74	6.68	35.33	-53.31	-13.00	-40.31	Peak
5	7027.82	-69.32	47.68	7.37	34.24	-48.51	-13.00	-35.51	Peak
6	9834.41	-68.10	50.57	9.50	34.13	-42.16	-13.00	-29.16	Peak
Гest ch	annel:	High			Polarizatio	n:	Ver	tical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	97.78	-77.64	25.78	1.85	30.65	-80.66	-13.00	-67.66	Peak
2	948.05	-74.80	29.13	6.35	29.27	-68.59	-13.00	-55.59	Peak
3	3747.66	-66.53	42.17	5.19	36.97	-56.14	-13.00	-43.14	Peak
4	5060.69	-68.06	44.33	6.15	35.52	-53.10	-13.00	-40.10	Peak
5	7508.69	-70.21	48.40	7.69	34.12	-48.24	-13.00	-35.24	Peak
		-68.72	52.79	10.00	35.90	-41.83	-13.00	-28.83	Peak

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				LTE B	and 5				
Test ch	annel:	Low			Polarizatio	n:	Н	orizontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-80.08	27.43	1.16	30.59	-82.08	-13.00	-69.08	Peak
2	948.05	-74.71	29.40	6.35	29.27	-68.23	-13.00	-55.23	Peak
3	1659.57	-46.56	36.20	3.42	37.72	-44.66	-13.00	-31.66	Peak
4	3598.09	-67.18	42.36	5.08	37.25	-56.99	-13.00	-43.99	Peak
5	7063.69	-70.28	47.72	7.41	33.95	-49.10	-13.00	-36.10	Peak
6	10833.22	-68.40	52.51	9.92	35.95	-41.92	-13.00	-28.92	Peak
Test ch	annel:	Low			Polarizatio	n:	V	ertical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limi	it Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dE	3m limi	t
1	97.78	-78.97	25.78	1.85	30.65	-81.99	-13.6	90 -68.9	9 Peak
2	786.85	-74.46	29.32	5.73	29.61	-69.02	-13.6	90 -56.0	2 Peak
3	1659.57	-48.41	36.14	3.42	37.72	-46.57	-13.6	90 -33.5	7 Peak
4	3728.63	-67.21	42.23	5.20	36.95	-56.73	-13.6	90 -43.7	3 Peak
5	7451.57	-69.44	48.50	7.83	34.52	-47.63	-13.6	90 -34.6	3 Peak
6	10833.22	-69.50	52.64	9.92	35.95	-42.89	-13.6	99 -29.8	9 Peak

Test ch	annel:	Mid			Polarizatio	n:	Hor	izontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	37.84	-80.64	27.46	1.12	30.64	-82.70	-13.00	-69.70	Peak
2	784.08	-75.50	29.80	5.72	29.57	-69.55	-13.00	-56.55	Peak
3	1672.30	-47.05	36.25	3.41	37.79	-45.18	-13.00	-32.18	Peak
4	3709.69	-66.29	42.28	5.19	37.01	-55.83	-13.00	-42.83	Peak
5	7413.73	-69.96	48.49	7.84	34.22	-47.85	-13.00	-34.85	Peak
6	10860.83	-69.17	52.57	9.93	35.94	-42.61	-13.00	-29.61	Peak
Test ch	annel:	Mid			Polarizatio	n:	Vert	ical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	89.87	-81.19	25.83	1.77	30.69	-84.28	-13.00	-71.28	Peak
2	948.05	-76.88	29.13	6.35	29.27	-70.67	-13.00	-57.67	Peak
3	1672.30	-44.47	36.17	3.41	37.79	-42.68	-13.00	-29.68	Peak
4	3672.11	-65.83	42.40	5.12	37.06	-55.37	-13.00	-42.37	Peak
5	7413.73	-70.85	48.57	7.84	34.22	-48.66	-13.00	-35.66	Peak
6	10971.98	-69.02	52.76	9.99	35.91	-42.18	-13.00	-29.18	Peak

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Test ch	annel:	High			Polarization	n:	Hor	izontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.03	-80.90	27.77	1.15	30.60	-82.58	-13.00	-69.58	Peak
2	944.72	-78.38	29.33	6.34	29.26	-71.97	-13.00	-58.97	Peak
3	1689.41	-38.04	36.31	3.40	37.74	-36.07	-13.00	-23.07	Peak
4	3662.78	-66.01	42.33	5.09	37.07	-55.66	-13.00	-42.66	Peak
5	7941.19	-70.41	48.06	7.97	33.82	-48.20	-13.00	-35.20	Peak
6	10888.51	-68.55	52.64	9.95	35.93	-41.89	-13.00	-28.89	Peak
Test ch	annel:	High			Polarization	n:	Ver	tical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	95.74	-80.80	25.81	1.83	30.66	-83.82	-13.00	-70.82	Peak
2	686.01	-78.37	28.61	5.30	29.67	-74.13	-13.00	-61.13	Peak
3	1689.41	-45.54	36.21	3.40	37.74	-43.67	-13.00	-30.67	Peak
4	3561.64	-65.81	42.05	5.16	37.36	-55.96	-13.00	-42.96	Peak
5	7508.69	-70.66	48.40	7.69	34.12	-48.69	-13.00	-35.69	Peak
6	10860.83	-68.42	52.66	9.93	35.94	-41.77	-13.00	-28.77	Peak

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Test cha	annel:	Low			Polarization	on:	Ho	rizontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	37.84	-81.12	27.46	1.12	30.64	-83.18	-25.00	-58.18	Peak
2	944.72	-77.50	29.33	6.34	29.26	-71.09	-25.00	-46.09	Peak
3	1364.18	-62.96	37.09	3.51	42.00	-64.36	-25.00	-39.36	Peak
4	5271.06	-65.65	44.00	6.32	40.99	-56.32	-25.00	-31.32	Peak
5	7413.73	-67.25	48.49	7.84	41.02	-51.94	-25.00	-26.94	Peak
6	11633.54	-68.23	52.87	10.45	42.30	-47.21	-25.00	-22.21	Peak
Test cha	annel:	Low			Polarization	on:	Ve	rtical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	92.76	-79.80	25.85	1.80	30.68	-82.83	-25.00	-57.83	Peak
2	809.30	-79.51	29.58	5.80	29.58	-73.71	-25.00	-48.71	Peak
3	2246.74	-63.20	41.15	4.01	41.80	-59.84	-25.00	-34.84	Peak
4	4065.71	-62.80	41.86	5.46	41.43	-56.91	-25.00	-31.91	Peak
5	7489.60	-66.16	48.44	7.63	41.08	-51.17	-25.00	-26.17	Peak
6	11994.38	-66.64	52.96	10.70	42.30	-45.28	-25.00	-20.28	Peak

Test ch	annel:	Mid			Polarization	on:	Ho	rizontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	37.84	-79.19	27.46	1.12	30.64	-81.25	-25.00	-56.25	Peak
2	944.72	-77.33	29.33	6.34	29.26	-70.92	-25.00	-45.92	Peak
3	1464.96	-61.94	36.75	3.16	42.17	-64.20	-25.00	-39.20	Peak
4	3786.01	-65.00	42.20	5.20	41.57	-59.17	-25.00	-34.17	Peak
5	7921.00	-67.02	48.03	7.95	40.97	-52.01	-25.00	-27.01	Peak
6	11197.71	-67.51	52.94	10.14	42.30	-46.73	-25.00	-21.73	Peak
Гest ch	annel:	Mid			Polarization	on:	Ve	rtical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Carried Control	Remark
1	95.74	-79.68	25.81	1.83	30.66	-82.70	-25.00	-57.70	Peak
2	841.21	-79.92	29.79	5.93	29.29	-73.49	-25.00	-48.49	Peak
3 4	1350.36	-62.54	37.54	4.09	42.00	-62.91	-25.00	-37.91	Peak
4	5138.58	-66.21	44.10	6.24	41.05	-56.92	-25.00	-31.92	Peak
5	9298.80	-67.31	49.78	9.22	40.96	-49.27	-25.00	-24.27	Peak
6	11994.38	-68.20	52.96	10.70	42.30	-46.84	-25.00	-21.84	Peak

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Test ch	annel:	High			Polarization	า:	Hori	izontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Service of the servic	Remark
1	38.78	-80.62	27.60	1.13	30.62	-82.51	-25.00	-57.51	Peak
2	844.18	-80.42	29.84	5.95	29.31	-73.94	-25.00	-48.94	Peak
3	1346.93	-62.29	37.05	3.83	42.00	-63.41	-25.00	-38.41	Peak
4	4501.49	-65.04	43.20	5.97	41.40	-57.27	-25.00	-32.27	Peak
5	7027.82	-67.49	47.68	7.37	40.90	-53.34	-25.00	-28.34	Peak
6	11399.03	-67.12	52.97	10.29	42.30	-46.16	-25.00	-21.16	Peak
Test ch	annel:	High			Polarization	า:	Vert	ical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	100.57	-80.05	25.67	1.88	30.64	-83.14	-25.00	-58.14	Peak
2	773.13	-76.45	29.21	5.67	29.49	-71.06	-25.00	-46.06	Peak
3	1514.25	-62.13	37.76	3.19	42.20	-63.38	-25.00	-38.38	Peak
4	3662.78	-65.04	42.43	5.09	41.60	-59.12	-25.00	-34.12	Peak
5	7190.69	-66.99	48.58	7.55	40.94	-51.80	-25.00	-26.80	Peak
6	11963.89	-68.65	52.98	10.68	42.30	-47.29	-25.00	-22.29	Peak

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				LTE Ba	and 12				
Test channel:		Low	Low		Polarizatio	n:	Но	rizontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	40.74	-96.06	27.43	1.16	0.00	-67.47	-13.00	-54.47	Peak
2	394.97	-93.43	25.31	3.91	0.00	-64.21	-13.00	-51.21	Peak
3	1589.29	-60.62	36.02	3.30	42.20	-63.50	-13.00	-50.50	Peak
4	4946.07	-66.77	44.17	6.06	41.17	-57.71	-13.00	-44.71	Peak
5	8002.06	-66.63	48.12	8.00	40.81	-51.32	-13.00	-38.32	Peak
6	10999.95	-67.90	52.91	10.00	42.30	-47.29	-13.00	-34.29	Peak
Test channel:		Low			Polarizatio	on:	Vei	rtical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	98.47	-96.09	25.77	1.85	0.00	-68.47	-13.00	-55.47	Peak
2	407.67	-93.67	25.30	3.97	0.00	-64.40	-13.00	-51.40	Peak
3	1350.36	-63.30	37.54	4.09	42.00	-63.67	-13.00	-50.67	Peak
4	2235.33	-62.58	41.29	4.02	41.80	-59.07	-13.00	-46.07	Peak
5	5297.97	-66.28	44.01	6.36	40.97	-56.88	-13.00	-43.88	Peak
6	11428.08	-67.88	53.15	10.31	42.30	-46.72	-13.00	-33.72	Peak

Test ch	annel:	Mid			Polarization:			orizontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit		
1	36.92	-95.56	27.32	1.10	0.00	-67.14	-13.00	-54.14	Peak	
2	416.36	-94.56	25.88	4.02	0.00	-64.66	-13.00	-51.66	Peak	
3	1350.36	-63.45	37.06	4.09	42.00	-64.30	-13.00	-51.36	Peak	
4	2388.28	-62.24	39.88	4.31	41.80	-59.85	-13.00	-46.89	Peak	
5	4582.42	-65.52	43.41	6.12	41.40	-57.39	-13.00	-44.39	Peak	
6	11312.31	-68.16	52.95	10.23	42.30	-47.28	-13.00	-34.28	Peak	
Test channel:		Mid			Polarizatio	n:	Ver	tical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	500000	
1	103.44	-95.86	25.28	1.90	0.00	-68.68	-13.00	-55.68	Peak	
2	425.24	-95.62	25.43	4.06	0.00	-66.13	-13.00	-53.13	Peak	
3	1581.22	-62.50	37.76	3.27	42.20	-63.67	-13.00	-50.67	Peak	
4	4245.51	-65.43	42.64	5.78	41.40	-58.41	-13.00	-45.41	Peak	
5	7451.57	-66.59	48.50	7.83	41.05	-51.31	-13.00	-38.31	Peak	
6	11545.04	-68.19	53.19	10.39	42.30	-46.91	-13.00	-33.91	Peak	

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Test channel:		High	High			Polarization:			lorizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over	Remark		
1	40.74	-95.26	27.43	1.16	0.00	-66.67	-13.00	-53.67	Peak		
2	743.80	-92.70	29.43	5.53	0.00	-57.74	-13.00	-44.74	Peak		
3	2140.66	-61.96	40.44	3.86	41.84	-59.50	-13.00	-46.50	Peak		
4	4267.18	-65.57	42.50	5.77	41.40	-58.70	-13.00	-45.70	Peak		
5	7319.96	-66.05	48.28	7.74	40.98	-51.01	-13.00	-38.01	Peak		
6	11603.96	-67.44	52.89	10.43	42.30	-46.42	-13.00	-33.42	Peak		
Test channel:		High			Polarization	on:	Ve	ertical			
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark		
1	90.82	-95.80	25.88	1.78	0.00	-68.14	-13.00	-55.14	Peak		
1 2	438.91	-95.32	25.60	4.13	0.00	-65.59	-13.00	-52.59	Peak		
3	1461.24	-62.72	37.76	3.16	42.15	-63.95	-13.00	-50.95	Peak		
4	2726.28	-62.15	40.13	4.38	41.80	-59.44	-13.00	-46.44	Peak		
5	4490.05	-65.11	43.23	6.00	41.40	-57.28	-13.00	-44.28	Peak		
-				9.08	41.08	-51.03	-13.00	-38.03	Peak		

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Test channel:		Low			Polarization:			izontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	773.13	-84.18	29.57	5.67	0.00	-48.94	-13.00	-35.94	Peak
2	948.05	-81.14	29.40	6.35	0.00	-45.39	-13.00	-32.39	Peak
3	1228.98	-74.44	36.80	2.92	37.52	-72.24	-13.00	-59.24	Peak
4	3151.99	-66.10	41.29	4.70	37.27	-57.38	-13.00	-44.38	Peak
5	5073.59	-68.38	44.21	6.22	35.62	-53.57	-13.00	-40.57	Peak
6	10916.26	-68.77	52.71	9.96	35.92	-42.02	-13.00	-29.02	Peak
Test cha	annel:	Low		I	Polarization	ղ:	Ver	tical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	773.13	-80.52	29.21	5.67	0.00	-45.64	-13.00	-32.64	Peak
2	948.05	-79.79	29.13	6.35	0.00	-44.31	-13.00	-31.31	Peak
3	1360.71	-76.43	37.59	3.66	37.39	-72.57	-13.00	-59.57	Peak
4	3160.03	-66.44	41.39	4.70	37.26	-57.61	-13.00	-44.61	Peak
5	7209.02	-70.76	48.64	7.56	34.28	-48.84	-13.00	-35.84	Peak
6	10805.68	-68.92	52.61	9.91	35.96	-42.36	-13.00	-29.36	Peak

Test channel:		Mid			Polarization: Ho			rizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	784.08	-80.26	29.80	5.72	0.00	-44.74	-13.00	-31.74	Peak	
2	948.05	-84.22	29.40	6.35	0.00	-48.47	-13.00	-35.47	Peak	
3	3168.08	-65.88	41.32	4.71	37.24	-57.09	-13.00	-44.09	Peak	
4	5164.81	-69.15	44.02	6.32	35.30	-54.11	-13.00	-41.11	Peak	
5	7394.88	-69.69	48.53	7.78	34.45	-47.83	-13.00	-34.83	Peak	
6	10805.68	-69.11	52.44	9.91	35.96	-42.72	-13.00	-29.72	Peak	
Γest ch	annel:	Mid			Polarizatio	n:	Ver	tical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm		Remark	
1	767.71	-80.78	29.14	5.64	0.00	-46.00	-13.00	-33.00	Peak	
2	948.05	-81.30	29.13	6.35	0.00	-45.82	-13.00	-32.82	Peak	
3	1346.93	-75.68	37.53	3.83	37.47	-71.79	-13.00	-58.79	Peak	
4	3625.67	-65.75	42.54	5.07	37.27	-55.41	-13.00	-42.41	Peak	
	6956.63	-70.22	47.36	7.35	34.16	-49.67	-13.00	-36.67	Peak	
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Test ch	annel:	High			Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	762.33	-80.11	29.22	5.62	0.00	-45.27	-13.00	-32.27	Peak	
2	948.05	-80.90	29.40	6.35	0.00	-45.15	-13.00	-32.15	Peak	
3	1360.71	-74.11	37.08	3.66	37.39	-70.76	-13.00	-57.76	Peak	
4	3200.50	-66.61	41.37	4.84	37.52	-57.92	-13.00	-44.92	Peak	
5	7045.74	-69.64	47.70	7.39	34.14	-48.69	-13.00	-35.69	Peak	
6	10860.83	-67.48	52.57	9.93	35.94	-40.92	-13.00	-27.92	Peak	
Test channel:		High			Polarization	1:	Verti	cal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit		
1	773.13	-76.42	29.21	5.67	0.00	-41.54	-13.00	-28.54	Peak	
	948.05	-80.28	29.13	6.35	0.00	-44.80	-13.00	-31.80	Peak	
2	340.03									
2	1219.64	-74.50	36.94	2.91	37.58	-72.23	-13.00	-59.23	Peak	
				2.91 4.64		-72.23 -57.71	-13.00 -13.00		Peak Peak	
3	1219.64	-74.50	36.94		37.36			-44.71		

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Test cha	annel:	Low			Polarization	:	Но	rizontal	
Mark	Frequency	Reading dBm	Antenna	Cable	Preamp	Level dBm	Limit		Remark
1	MHZ 40.74	-80.73	dB 27.43	dB 1.16	dB 30.59	-82.73	-13.00		Peak
2	948.05	-75.62	29.40	6.35	29.27	-69.14	-13.00		Peak
3	4641.12	-67.98	43.50	5.84	36.24	-54.88	-13.00		Peak
4	7357.33	-70.21	48.40	7.72	34.69	-48.78	-13.00		Peak
5	9834.41	-68.24	50.57	9.50	34.13	-42.30	-13.00		Peak
6	11545.04	-69.30	52.94	10.39	36.18	-42.15	-13.00		Peak
Test cha	annel:	Low			Polarization	:	Ve	rtical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Lim	it Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	d	Bm limit	t
1	95.74	-79.68	25.81	1.83	30.66	-82.70	-13.	00 -69.76	9 Peak
2	832.39	-80.42	29.79	5.89	29.30	-74.04	-13.	90 -61.04	4 Peak
3	3588.94	-66.29	42.46	5.08	37.24	-55.99	-13.	00 -42.99	9 Peak
4	4785.08	-66.41	43.62	5.98	35.92	-52.73	-13.	00 -39.7	3 Peak
5	7376.08	-70.20	48.60	7.71	34.72	-48.61	-13.	00 -35.61	1 Peak
6	10916.26	-68.67	52.71	9.96	35.92	-41.92	-13.	00 -28.92	2 Peak

Test cha	nnel:	Mid	Mid			ո:	Hori	Horizontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit		
1	39.75	-81.03	27.74	1.15	30.61	-82.75	-13.00	-69.75	Peak	
2	773.13	-77.78	29.57	5.67	29.49	-72.03	-13.00	-59.03	Peak	
3	3480.97	-62.37	40.74	5.00	37.49	-54.12	-13.00	-41.12	Peak	
4	5230.96	-58.76	43.97	6.33	35.61	-44.07	-13.00	-31.07	Peak	
5	6974.36	-67.60	47.53	7.34	34.15	-46.88	-13.00	-33.88	Peak	
6	10888.51	-67.82	52.64	9.95	35.93	-41.16	-13.00	-28.16	Peak	
Test channel:		Mid		1	Polarization	າ:	Vert	ical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	98.47	-79.44	25.77	1.85	30.65	-82.47	-13.00	-69.47	Peak	
2	948.05	-72.40	29.13	6.35	29.27	-66.19	-13.00	-53.19	Peak	
3	3480.97	-60.53	40.83	5.00	37.49	-52.19	-13.00	-39.19	Peak	
4	4958.68	-66.82	44.33	6.07	35.83	-52.25	-13.00	-39.25	Peak	
_	6974.36	-65.79	47.36	7.34	34.15	-45.24	-13.00	-32.24	Peak	
5	07/4.30	0000	17 12 2							

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Test channel:		High	High			Polarization:			
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	39.75	-80.54	27.74	1.15	30.61	-82.26	-13.00	-69.26	Peak
2	773.13	-78.01	29.57	5.67	29.49	-72.26	-13.00	-59.26	Peak
3	3104.22	-65.60	41.21	4.65	37.42	-57.16	-13.00	-44.16	Peak
4	5352.19	-68.30	44.05	6.34	35.51	-53.42	-13.00	-40.42	Peak
5	7860.74	-70.25	47.96	7.90	33.74	-48.13	-13.00	-35.13	Peak
6	9784.47	-69.28	50.54	9.48	33.44	-42.70	-13.00	-29.70	Peak
Test channel:		High			Polarizatio	on:	Vei	rtical	
Mark	Frequency MHZ	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	96.76	-81.01	25.79	1.84	30.66	-84.04	-13.00	-71.04	Peak
2	850.14	-80.34	29.84	5.97	29.35	-73.88	-13.00	-60.88	Peak
3	3662.78	-67.32	42.43	5.09	37.07	-56.87	-13.00	-43.87	Peak
4	5311.47	-68.35	44.03	6.39	35.37	-53.30	-13.00	-40.30	Peak
5	7508.69	-69.55	48.40	7.69	34.12	-47.58	-13.00	-34.58	Peak
- 3						-43.26	-13.00		

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6. TEST SETUP PHOTOS OF THE EUT

Refer to the test report No.: CHTEW23100032

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTEW23100032

8. APPENDIX REPORT